

Appln No. 09/886,625
Amdt dat August 28, 2003
Reply to final Office action of February 28, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-4. (Canceled)

Claim 5. (Currently Amended) A positive coefficient device adapted for use in circuit protection, the device comprising:

a first laminar foil;

a second laminar foil; and

a polymeric compound between the first laminar foil and the second laminar foil, the polymeric compound comprising a polymer, a plasticizer between 5%-15% by volume of the polymeric compound, and two different carbon black blacks;

with the positive coefficient device having low room temperature resistivities and a switching temperature approximate 70 degrees Celsius.

Claim 6. (Original) The positive coefficient device of claim 5 wherein the polymer comprises a semi-crystalline polymer.

Claims 7-8. (Canceled)

Claim 9. (Currently Amended) A method of forming a low switching temperature polymeric positive temperature coefficient

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device suitable for circuit protection use, the method comprising:

compounding semi-crystalline polymer, plasticizer, and two different carbon ~~black~~ blacks, to form a polymeric compound, the plasticizer comprising approximately 10% by volume of the polymeric compound;

pressing the polymeric compound between nodular foil; and crosslinking the polymeric compound.

Claim 10. (Canceled)

Claim 11. (Currently Amended) The positive coefficient device of ~~claim 10~~ claim 5 wherein the plasticizer is a micronized polyester wax.

Claim 12. (Previously Presented) The positive coefficient device of claim 11 wherein the polymer is a semi-crystalline polymer.

Claim 13. (Previously Presented) The positive coefficient device of claim 12 wherein the polymer comprises between 30%-40% by volume of the polymeric compound.

Claim 14. (Previously Presented) The positive coefficient device of claim 13 wherein substantially most of the carbon black is of one type.

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Claim 15. (Previously Presented) The positive coefficient device of claim 14 wherein the carbon blacks comprise greater than 5% by volume of the polymeric compound.

Claim 16. (Previously Presented) The positive coefficient device of claim 14 wherein the carbon blacks comprise 30% by volume of the polymeric compound.

Claim 17. (Previously Presented) The positive coefficient device of claim 14 wherein the carbon blacks comprise approximately 50% by volume of the polymeric compound.

Claims 18-33. (Canceled)

34. (Currently Amended) The method of forming the low switching temperature polymeric positive coefficient device of ~~claim 33~~ claim 9 wherein the two different carbon blacks comprise a first carbon black and a second carbon black, and the carbon black is substantially the first carbon black.